

WHAT IS CLAIMED IS:

1. A smoothing processor of image data comprising:
a data obtaining unit which obtains the image data
5 including a plurality of unit image data arranged in time series;
a determining unit which determines a difference between
object unit image data which is subjected to processing and
preceding unit image data which is immediately before the object
unit image data and a difference between the object unit image
10 data and subsequent unit image data which is immediately after
the object unit image data, for a plurality of blocks
constituting the unit image data; and

a smoothing unit which executes smoothing by utilizing
the object unit image data and one of the preceding unit image
15 data and the subsequent unit image data having a smaller
difference, based on a determination result by the determining
unit.

2. The smoothing processor of the image data according
20 to claim 1, wherein the determining unit comprises:

a unit which determines whether or not the differences
are equal to or larger than a predetermined value for each block;
and

a unit which determines one of the preceding unit image
25 data and the subsequent unit image data including less blocks
whose difference is equal to or larger than the predetermined
value, as the unit image data having smaller difference.

3. The smoothing processor of the image data according
30 to claim 2, wherein the smoothing unit executes smoothing by
utilizing the object unit image data and the unit image data
having smaller difference for the block whose difference is
smaller than the predetermined value, and executes smoothing
by utilizing only the object unit image data for the block whose

difference is equal to or larger than the predetermined value.

4. A smoothing processing method of image data comprising:

5 a data obtaining process which obtains image data including a plurality of unit image data arranged in time series;

a determining process which determines a difference between object unit image data which is subjected to processing and preceding unit image data which is immediately before the object unit image data and a difference between the object unit image data and subsequent unit image data which is immediately after the object unit image data, for a plurality of blocks constituting the unit image data; and

10 a smoothing process which executes smoothing by utilizing the object unit image data and one of the preceding unit image data and the subsequent unit image data having smaller difference, based on a determination result by the determining process.

20 5. A smoothing processing program of image data, to be executed by a computer, which controls the computer to function as:

a data obtaining unit which obtains image data including a plurality of unit image data arranged in time series;

25 a determining unit which determines a difference between object unit image data subjected to processing and preceding unit image data which is immediately before the object unit image data, and a difference between the object unit image data and subsequent unit image data which is immediately after the object unit image data, for a plurality of blocks constituting the object unit image data; and

30 a smoothing unit which executes smoothing by utilizing the object unit image data and one of the preceding unit image data and the subsequent unit image data having smaller difference,

based on a determination result by the determining unit.